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## RAW SEQUENCE LISTING

DATE: 08/14/2001

PATENT APPLICATION: US/09/785,215

TIME: 12:01:30

Input Set : A:\3631-0107P.ST25.txt

Output Set: N:\CRF3\08142001\I785215.raw

3 <110> APPLICANT: JENSEN, Martin Roland et al.  
 5 <120> TITLE OF INVENTION: NOVEL METHOD FOR DOWN-REGULATION OF AMYLOID  
 7 <130> FILE REFERENCE: 3631-0107P  
 9 <140> CURRENT APPLICATION NUMBER: 09/785,215  
 10 <141> CURRENT FILING DATE: 2001-02-20  
 12 <160> NUMBER OF SEQ ID NOS: 19  
 14 <170> SOFTWARE: PatentIn version 3.1  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 2313

ENTERED

18 <212> TYPE: DNA  
 19 <213> ORGANISM: Homo sapiens  
 21 <220> FEATURE:  
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 23 <222> LOCATION: (1)..(2313)  
 24 <223> OTHER INFORMATION:  
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 28 <221> NAME/KEY: misc\_feature  
 29 <222> LOCATION: (2098)..(2169)  
 30 <223> OTHER INFORMATION: nucleotides encoding transmembrane region  
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 35 <222> LOCATION: (2014)..(2313)  
 36 <223> OTHER INFORMATION: Nucleotides encoding C-100  
 39 <220> FEATURE:  
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 41 <222> LOCATION: (2016)..(2144)  
 42 <223> OTHER INFORMATION: Abeta 42/43  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: misc\_feature  
 47 <222> LOCATION: (2014)..(2142)  
 48 <223> OTHER INFORMATION: Abeta 42/43  
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53	Met Leu Pro Gly Leu Ala Leu Leu Leu Leu Ala Ala Trp Thr Ala Arg	
54	1 5 10 15	
56	gcg ctg gag gta ccc act gat ggt aat gct ggc ctg ctg gct gaa ccc	96
57	Ala Leu Glu Val Pro Thr Asp Gly Asn Ala Gly Leu Leu Ala Glu Pro	
58	20 25 30	
60	cag att gcc atg ttc tgt ggc aga ctg aac atg cac atg aat gtc cag	144
61	Gln Ile Ala Met Phe Cys Gly Arg Leu Asn Met His Met Asn Val Gln	
62	35 40 45	
64	aat ggg aag tgg gat tca gat cca tca ggg acc aaa acc tgc att gat	192
65	Asn Gly Lys Trp Asp Ser Asp Pro Ser Gly Thr Lys Thr Cys Ile Asp	
66	50 55 60	
68	acc aag gaa ggc atc ctg cag tat tgc caa gaa gtc tac cct gaa ctg	240
69	Thr Lys Glu Gly Ile Leu Gln Tyr Cys Gln Glu Val Tyr Pro Glu Leu	
70	65 70 75 80	

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72 cag atc acc aat gtg gta gaa gcc aac caa cca gtg acc atc cag aac      288
73 Gln Ile Thr Asn Val Val Glu Ala Asn Gln Pro Val Thr Ile Gln Asn
74      85      90      95
76 tgg tgc aag cgg ggc cgc aag cag tgc aag acc cat ccc cac ttt gtg      336
77 Trp Cys Lys Arg Gly Arg Lys Gln Cys Lys Thr His Pro His Phe Val
78      100      105      110
80 att ccc tac cgc tgc tta gtt ggt gag ttt gta agt gat gcc ctt ctc      384
81 Ile Pro Tyr Arg Cys Leu Val Gly Glu Phe Val Ser Asp Ala Leu Leu
82      115      120      125
84 gtt cct gac aag tgc aaa ttc tta cac cag gag agg atg gat gtt tgc      432
85 Val Pro Asp Lys Cys Lys Phe Leu His Gln Glu Arg Met Asp Val Cys
86      130      135      140
88 gaa act cat ctt cac tgg cac acc gtc gcc aaa gag aca tgc agt gag      480
89 Glu Thr His Leu His Trp His Thr Val Ala Lys Glu Thr Cys Ser Glu
90 145      150      155      160
92 aag agt acc aac ttg cat gac tac ggc atg ttg ctg ccc tgc gga att      528
93 Lys Ser Thr Asn Leu His Asp Tyr Gly Met Leu Leu Pro Cys Gly Ile
94      165      170      175
96 gac aag ttc cga ggg gta gag ttt gtg tgt tgc cca ctg gct gaa gaa      576
97 Asp Lys Phe Arg Gly Val Glu Phe Val Cys Cys Pro Leu Ala Glu Glu
98      180      185      190
100 agt gac aat gtg gat tct gct gat gcg gag gag gat gac tcg gat gtc      624
101 Ser Asp Asn Val Asp Ser Ala Asp Ala Glu Glu Asp Asp Ser Asp Val
102      195      200      205
104 tgg tgg ggc gga gca gac aca gac tat gca gat ggg agt gaa gac aaa      672
105 Trp Trp Gly Gly Ala Asp Thr Asp Tyr Ala Asp Gly Ser Glu Asp Lys
106      210      215      220
108 gta gta gaa gta gca gag gag gaa gaa gtg gct gag gtg gaa gaa gaa      720
109 Val Val Glu Val Ala Glu Glu Glu Glu Val Ala Glu Val Glu Glu Glu
110 225      230      235      240
112 gaa gcc gat gat gac gag gac gat gag gat ggt gat gag gta gag gaa      768
113 Glu Ala Asp Asp Asp Glu Asp Asp Glu Asp Gly Asp Glu Val Glu Glu
114      245      250      255
116 gag gct gag gaa ccc tac gaa gaa gcc aca gag aga acc acc agc att      816
117 Glu Ala Glu Glu Pro Tyr Glu Glu Ala Thr Glu Arg Thr Thr Ser Ile
118      260      265      270
120 gcc acc acc acc acc acc acc aca gag tct gtg gaa gag gtg gtt cga      864
121 Ala Thr Thr Thr Thr Thr Thr Thr Glu Ser Val Glu Glu Val Val Arg
122      275      280      285
124 gag gtg tgc tct gaa caa gcc gag acg ggg ccg tgc cga gca atg atc      912
125 Glu Val Cys Ser Glu Gln Ala Glu Thr Gly Pro Cys Arg Ala Met Ile
126      290      295      300
128 tcc cgc tgg tac ttt gat gtg act gaa ggg aag tgt gcc cca ttc ttt      960
129 Ser Arg Trp Tyr Phe Asp Val Thr Glu Gly Lys Cys Ala Pro Phe Phe
130 305      310      315      320
132 tac ggc gga tgt ggc ggc aac cgg aac aac ttt gac aca gaa gag tac      1008
133 Tyr Gly Gly Cys Gly Gly Asn Arg Asn Asn Phe Asp Thr Glu Glu Tyr
134      325      330      335
136 tgc atg gcc gtg tgt ggc agc gcc atg tcc caa agt tta ctc aag act      1056

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137	Cys	Met	Ala	Val	Cys	Gly	Ser	Ala	Met	Ser	Gln	Ser	Leu	Leu	Lys	Thr	
138				340					345					350			
140	acc	cag	gaa	cct	ctt	gcc	cga	gat	cct	gtt	aaa	ctt	cct	aca	aca	gca	1104
141	Thr	Gln	Glu	Pro	Leu	Ala	Arg	Asp	Pro	Val	Lys	Leu	Pro	Thr	Thr	Ala	
142				355					360					365			
144	gcc	agt	acc	cct	gat	gcc	gtt	gac	aag	tat	ctc	gag	aca	cct	ggg	gat	1152
145	Ala	Ser	Thr	Pro	Asp	Ala	Val	Asp	Lys	Tyr	Leu	Glu	Thr	Pro	Gly	Asp	
146				370					375					380			
148	gag	aat	gaa	cat	gcc	cat	ttc	cag	aaa	gcc	aaa	gag	agg	ctt	gag	gcc	1200
149	Glu	Asn	Glu	His	Ala	His	Phe	Gln	Lys	Ala	Lys	Glu	Arg	Leu	Glu	Ala	
150	385								390					395		400	
152	aag	cac	cga	gag	aga	atg	tcc	cag	gtc	atg	aga	gaa	tgg	gaa	gag	gca	1248
153	Lys	His	Arg	Glu	Arg	Met	Ser	Gln	Val	Met	Arg	Glu	Trp	Glu	Glu	Ala	
154				405						410					415		
156	gaa	cgt	caa	gca	aag	aac	ttg	cct	aaa	gct	gat	aag	aag	gca	gtt	atc	1296
157	Glu	Arg	Gln	Ala	Lys	Asn	Leu	Pro	Lys	Ala	Asp	Lys	Lys	Ala	Val	Ile	
158				420						425				430			
160	cag	cat	ttc	cag	gag	aaa	gtg	gaa	tct	ttg	gaa	cag	gaa	gca	gcc	aac	1344
161	Gln	His	Phe	Gln	Glu	Lys	Val	Glu	Ser	Leu	Glu	Gln	Glu	Ala	Ala	Asn	
162				435						440				445			
164	gag	aga	cag	cag	ctg	gtg	gag	aca	cac	atg	gcc	aga	gtg	gaa	gcc	atg	1392
165	Glu	Arg	Gln	Gln	Leu	Val	Glu	Thr	His	Met	Ala	Arg	Val	Glu	Ala	Met	
166				450						455				460			
168	ctc	aat	gac	cgc	cgc	cgc	ctg	gcc	ctg	gag	aac	tac	atc	acc	gct	ctg	1440
169	Leu	Asn	Asp	Arg	Arg	Arg	Leu	Ala	Leu	Glu	Asn	Tyr	Ile	Thr	Ala	Leu	
170	465									470				475		480	
172	cag	gct	gtt	cct	cct	cgg	cct	cgt	cac	gtg	ttc	aat	atg	cta	aag	aag	1488
173	Gln	Ala	Val	Pro	Pro	Arg	Pro	Arg	His	Val	Phe	Asn	Met	Leu	Lys	Lys	
174				485						490					495		
176	tat	gtc	cgc	gca	gaa	cag	aag	gac	aga	cag	cac	acc	cta	aag	cat	ttc	1536
177	Tyr	Val	Arg	Ala	Glu	Gln	Lys	Asp	Arg	Gln	His	Thr	Leu	Lys	His	Phe	
178				500						505				510			
180	gag	cat	gtg	cgc	atg	gtg	gat	ccc	aag	aaa	gcc	gct	cag	atc	cgg	tcc	1584
181	Glu	His	Val	Arg	Met	Val	Asp	Pro	Lys	Lys	Ala	Ala	Gln	Ile	Arg	Ser	
182				515						520				525			
184	cag	gtt	atg	aca	cac	ctc	cgt	gtg	att	tat	gag	cgc	atg	aat	cag	tct	1632
185	Gln	Val	Met	Thr	His	Leu	Arg	Val	Ile	Tyr	Glu	Arg	Met	Asn	Gln	Ser	
186				530						535				540			
188	ctc	tcc	ctg	ctc	tac	aac	gtg	cct	gca	gtg	gcc	gag	gag	att	cag	gat	1680
189	Leu	Ser	Leu	Leu	Tyr	Asn	Val	Pro	Ala	Val	Ala	Glu	Glu	Ile	Gln	Asp	
190	545									550				555		560	
192	gaa	gtt	gat	gag	ctg	ctt	cag	aaa	gag	caa	aac	tat	tca	gat	gac	gtc	1728
193	Glu	Val	Asp	Glu	Leu	Leu	Gln	Lys	Glu	Gln	Asn	Tyr	Ser	Asp	Asp	Val	
194										565				570		575	
196	ttg	gcc	aac	atg	att	agt	gaa	cca	agg	atc	agt	tac	gga	aac	gat	gct	1776
197	Leu	Ala	Asn	Met	Ile	Ser	Glu	Pro	Arg	Ile	Ser	Tyr	Gly	Asn	Asp	Ala	
198				580						585				590			
200	ctc	atg	cca	tct	ttg	acc	gaa	acg	aaa	acc	acc	gtg	gag	ctc	ctt	ccc	1824
201	Leu	Met	Pro	Ser	Leu	Thr	Glu	Thr	Lys	Thr	Thr	Val	Glu	Leu	Leu	Pro	

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202          595          600          605
204 gtg aat gga gag ttc agc ctg gac gat ctc cag ccg tgg cat tct ttt      1872
205 Val Asn Gly Glu Phe Ser Leu Asp Asp Leu Gln Pro Trp His Ser Phe
206          610          615          620
208 ggg gct gac tct gtg cca gcc aac aca gaa aac gaa gtt gag cct gtt      1920
209 Gly Ala Asp Ser Val Pro Ala Asn Thr Glu Asn Glu Val Glu Pro Val
210 625          630          635          640
212 gat gcc cgc cct gct gcc gac cga gga ctg acc act cga cca ggt tct      1968
213 Asp Ala Arg Pro Ala Ala Asp Arg Gly Leu Thr Thr Arg Pro Gly Ser
214          645          650          655
216 ggg ttg aca aat atc aag acg gag gag atc tct gaa gtg aag atg gat      2016
217 Gly Leu Thr Asn Ile Lys Thr Glu Glu Ile Ser Glu Val Lys Met Asp
218          660          665          670
220 gca gaa ttc cga cat gac tca gga tat gaa gtt cat cat caa aaa ttg      2064
221 Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys Leu
222          675          680          685
224 gtg ttc ttt gca gaa gat gtg ggt tca aac aaa ggt gca atc att gga      2112
225 Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile Gly
226          690          695          700
228 ctc atg gtg ggc ggt gtt gtc ata gcg aca gtg atc gtc atc acc ttg      2160
229 Leu Met Val Gly Gly Val Val Ile Ala Thr Val Ile Val Ile Thr Leu
230 705          710          715          720
232 gtg atg ctg aag aag aaa cag tac aca tcc att cat cat ggt gtg gtg      2208
233 Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile His His Gly Val Val
234          725          730          735
236 gag gtt gac gcc gct gtc acc cca gag gag cgc cac ctg tcc aag atg      2256
237 Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg His Leu Ser Lys Met
238          740          745          750
240 cag cag aac ggc tac gaa aat cca acc tac aag ttc ttt gag cag atg      2304
241 Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys Phe Phe Glu Gln Met
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244 cag aac tag      2313
245 Gln Asn
246          770
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250 <211> LENGTH: 770
251 <212> TYPE: PRT
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262          20          25          30
265 Gln Ile Ala Met Phe Cys Gly Arg Leu Asn Met His Met Asn Val Gln
266          35          40          45
269 Asn Gly Lys Trp Asp Ser Asp Pro Ser Gly Thr Lys Thr Cys Ile Asp
270          50          55          60
273 Thr Lys Glu Gly Ile Leu Gln Tyr Cys Gln Glu Val Tyr Pro Glu Leu
274 65          70          75          80

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277 Gln Ile Thr Asn Val Val Glu Ala Asn Gln Pro Val Thr Ile Gln Asn
278      85      90      95
281 Trp Cys Lys Arg Gly Arg Lys Gln Cys Lys Thr His Pro His Phe Val
282      100      105      110
285 Ile Pro Tyr Arg Cys Leu Val Gly Glu Phe Val Ser Asp Ala Leu Leu
286      115      120      125
289 Val Pro Asp Lys Cys Lys Phe Leu His Gln Glu Arg Met Asp Val Cys
290      130      135      140
293 Glu Thr His Leu His Trp His Thr Val Ala Lys Glu Thr Cys Ser Glu
294 145      150      155      160
297 Lys Ser Thr Asn Leu His Asp Tyr Gly Met Leu Leu Pro Cys Gly Ile
298      165      170      175
301 Asp Lys Phe Arg Gly Val Glu Phe Val Cys Cys Pro Leu Ala Glu Glu
302      180      185      190
305 Ser Asp Asn Val Asp Ser Ala Asp Ala Glu Glu Asp Asp Ser Asp Val
306      195      200      205
309 Trp Trp Gly Gly Ala Asp Thr Asp Tyr Ala Asp Gly Ser Glu Asp Lys
310      210      215      220
313 Val Val Glu Val Ala Glu Glu Glu Glu Val Ala Glu Val Glu Glu Glu
314 225      230      235      240
317 Glu Ala Asp Asp Asp Glu Asp Asp Glu Asp Gly Asp Glu Val Glu Glu
318      245      250      255
321 Glu Ala Glu Glu Pro Tyr Glu Glu Ala Thr Glu Arg Thr Thr Ser Ile
322      260      265      270
325 Ala Thr Thr Thr Thr Thr Thr Thr Glu Ser Val Glu Glu Val Val Arg
326      275      280      285
329 Glu Val Cys Ser Glu Gln Ala Glu Thr Gly Pro Cys Arg Ala Met Ile
330      290      295      300
333 Ser Arg Trp Tyr Phe Asp Val Thr Glu Gly Lys Cys Ala Pro Phe Phe
334 305      310      315      320
337 Tyr Gly Gly Cys Gly Gly Asn Arg Asn Asn Phe Asp Thr Glu Glu Tyr
338      325      330      335
341 Cys Met Ala Val Cys Gly Ser Ala Met Ser Gln Ser Leu Leu Lys Thr
342      340      345      350
345 Thr Gln Glu Pro Leu Ala Arg Asp Pro Val Lys Leu Pro Thr Thr Ala
346      355      360      365
349 Ala Ser Thr Pro Asp Ala Val Asp Lys Tyr Leu Glu Thr Pro Gly Asp
350      370      375      380
353 Glu Asn Glu His Ala His Phe Gln Lys Ala Lys Glu Arg Leu Glu Ala
354 385      390      395      400
357 Lys His Arg Glu Arg Met Ser Gln Val Met Arg Glu Trp Glu Glu Ala
358      405      410      415
361 Glu Arg Gln Ala Lys Asn Leu Pro Lys Ala Asp Lys Lys Ala Val Ile
362      420      425      430
365 Gln His Phe Gln Glu Lys Val Glu Ser Leu Glu Gln Glu Ala Ala Asn
366      435      440      445
369 Glu Arg Gln Gln Leu Val Glu Thr His Met Ala Arg Val Glu Ala Met
370      450      455      460
373 Leu Asn Asp Arg Arg Arg Leu Ala Leu Glu Asn Tyr Ile Thr Ala Leu

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